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DATE MAILED: 11/02/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/950,026	09/10/2001	Manh Hung Pham	016295.0693	1709
7590 11/02/2006			EXAMINER	
Roger Fulghum			WILSON, YOLANDA L	
Baker Botts L.I	L.P.			
One Shell Plaza			ART UNIT	PAPER NUMBER
910 Louisiana Street			2113	
Houston, TX	77002-4995	•		

Please find below and/or attached an Office communication concerning this application or proceeding.

4	Application No.	Applicant(s)	
Office Assign Commons	09/950,026	PHAM, MANH HUNG	
Office Action Summary	Examiner	Art Unit	
	Yolanda L. Wilson	2113	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a lod will apply and will expire SIX (6) MOI tute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 06	6 October 2006.	•	
	his action is non-final.		
3) Since this application is in condition for allow		ters, prosecution as to the ments is	
closed in accordance with the practice under		·	
•		,	
Disposition of Claims			
4)⊠ Claim(s) <u>1-3,5-12,14-19,21-28 and 30-32</u> is	are pending in the application	on.	
4a) Of the above claim(s) is/are without	Irawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-3,5-12,14-19,21-28 and 30-32</u> is	/are rejected.		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	iner		
10) The drawing(s) filed on is/are: a) a		by the Examiner	
Applicant may not request that any objection to t		•	
Replacement drawing sheet(s) including the con	• • • • • • • • • • • • • • • • • • • •	, , ,	
11) The oath or declaration is objected to by the	•	• • • • • • • • • • • • • • • • • • • •	
	LAMINIEL NOTE THE ATTACHE	omee Adion of John 1 10-132.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Burn * See the attached detailed Office action for a least	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application 	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1,3,6-12,15-17,19,22-28,31,32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raynham et al. (USPN 5774647A) in view of Dearth et al. (USPN 5588112A). As per claims 1 and 17, Raynham et al. discloses detecting a memory error; analyzing said memory error, determining a memory module in which said error occurred and creating a log; and storing said log in said non-volatile memory section of said memory module in column 10, lines 4-18 and the abstract.

Raynham et al. fails to explicitly state wherein the log includes information identifying the cause of said error. Raynham et al. discloses that the errors are logged according to correctable and non-correctable errors.

Dearth et al. discloses this limitation in column 15, lines 9-19.

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the log include information identifying the cause of said error. A person of ordinary skill in the art would have been motivated to have the log include information identifying the cause of said error because identifying the cause of the error allows a user to determine during which operation performed by the memory the error occurred.

3. As per claims 3 and 19, Raynham et al. discloses wherein said memory error is detected during normal operation in the abstract.

- 4. As per claims 6,15,22,31, Raynham et al. discloses wherein said log comprises information about the date and time when said error occurred in the abstract.
- 5. As per claims 7 and 23, Raynham et al. discloses wherein said log comprises information about the system identification in column 7, lines 62-67.
- 6. As per claims 8 and 24, Raynham et al. discloses wherein said log is stored in a cyclical manner in column 10, lines 19-38.
- 7. As per claims 9 and 25, Raynham et al. discloses a central processing unit; a memory system coupled with said central processing unit comprising a plurality of memory module slots for receiving of memory modules, said memory module comprising a random access memory section and a non-volatile memory section; means for detecting an error in said memory system; means for generating a log about said error; and means for storing said log in said non-volatile memory section of a memory module in Figure 2, abstract, in column 10, lines 4-18.

Raynham et al. fails to explicitly state wherein the log includes information identifying the cause of said error. Raynham et al. discloses that the errors are logged according to correctable and non-correctable errors.

Dearth et al. discloses this limitation in column 15, lines 9-19.

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the log include information identifying the cause of said error. A person of ordinary skill in the art would have been motivated to have the

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log include information identifying the cause of said error because identifying the cause of the error allows a user to determine during which operation performed by the memory the error occurred.

- 8. As per claims 10 and 26, Raynham et al. fails to explicitly state wherein said means for detecting an error generate an exception within said central processing unit in column 10, lines 4-18.
- 9. As per claims 11 and 27, Raynham et al. discloses wherein said non-volatile memory is divided in a plurality of sub sections each sub section storing one log in column 10, lines 19-31.
- 10. As per claims 12 and 28, Raynham et al. discloses wherein said sub sections are written in a cyclical manner in column 10, lines 19-31.
- 11. As per claims 16 and 32, Raynham et al. discloses wherein said log comprises information about the system identification in column 7, lines 62-67.

Claim Rejections - 35 USC § 103

- 12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claims 2,5,14,18,21,30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raynham et al. in view of Dearth et al. in further view of Brisse et al. (WO 99/05599). As per claims 2 and 18, Raynham et al. and Dearth et al. fail to explicitly state wherein said memory error is detected during a diagnostic test.

Brisse et al. discloses this limitation on pages 8 and 9, 'In another embodiment of the invention, memory errors may be detected during manufacture...This embodiment may be utilized in manufacturing test images and systems undergoing hot room testing.'

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have said memory error is detected during a diagnostic test. A person of ordinary skill in the art would have been motivated to have said memory error is detected during a diagnostic test because memory errors occur during test and are logged to indicate which memory locations have erred.

14. As per claims 5,14,21,30, Raynham et al. and Dearth fail to explicitly state wherein said log comprises information about the location of the memory module.

Brisse et al. discloses this limitation on page 7, "Once the actual slot number of the interface slot with the error is determined, then the process continues to step 310 in which the actual slot number is stored in the Windows NTTM system registry."

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have said log comprises information about the location of the memory module. A person of ordinary skill in the art would have been motivated to have said log comprises information about the location of the memory module because the slot id which indicates the location of the memory module within the system is used to determine the memory module with the error. Brisse et al. discloses this on page 7, "As is known in the art, the system registry is a system database maintained by the operating system to store data such as, for example... information relating to installed hardware and software devices. In preferred embodiments, the driver 2 increments an

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error count in the system registry. Upon detection of an error, the driver 2 preferably reports such error and count to the well known Windows NTTM System Event Log..."

Response to Arguments

15. Applicant's arguments with respect to the rejection of claims 1-3,5-12,14-19,21-28,30-32 have been fully considered and are persuasive concerning using the reference Besemer et al. Therefore, the rejection has been withdrawn. However, upon further consideration, a new reference Dearth et al. has been found to be used in the rejection of the above-specified claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yolanda L. Wilson whose telephone number is (571) 272-3653. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (571) 272-3645. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Yolanda L Wilson Examiner

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